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News@Agilent

Agilent Technologies Firehunter/e-Commerce offers first continuous real-time monitoring of e-commerce site performance

ISP hosts of e-commerce sites and business managers can now verify service levels and business performance

PALO ALTO, Calif., May 2, 2000

Agilent Technologies, Inc. (NYSE: A) today introduces the first solution that allows Internet Service Providers (ISPs) hosting electronic business-to-consumer storefronts to continuously monitor performance of the entire infrastructure that supports **e-commerce**.

Agilent **Firehunter/e-Commerce** monitoring includes synthetic transactions that repeatedly test both the user's experience with the commerce application and component operations managed by institutions that host ISPs do not control; for example, catalog look-up, credit verification and debiting and ordering. **Firehunter/e-Commerce** also enables Web-business managers to obtain independent corroboration of real-time performance in business terms -- approved sales rates in dollars per minute, payment service errors, item sold rate -- with normal performance baselines and alerting thresholds.

Firehunter/e-Commerce provides comprehensive measurements that allow ISPs to make verifiable business-oriented service level assurance (SLA) agreements with **e-commerce** vendors. The software can track real-time SLA compliance, identify potential problems anywhere within the infrastructure, alert the appropriate people and systems, and trigger other applications to correct problems. **Firehunter/e-Commerce** couples real-time transaction monitoring with the ability to "drill-down" and isolate the root causes of problems. **Firehunter/e-Commerce** combines these end-user-experience and infrastructure-performance views with near-real-time business performance measurements to provide a complete picture of **e-commerce** service health. The solution's measurements also enable ISPs to negotiate realistic SLAs with co-service providers and use these to provide end-to-end service guarantees to their business customers.

"Consumer patience with delay on **e-commerce** sites can be measured in seconds," said Tom White, vice president and general manager of Agilent's Communications Solutions Group. "Many things can go wrong. **Firehunter/e-Commerce** allows ISPs to locate and fix infrastructure problems quickly. ISPs can now offer SLAs that differentiate them from competitors, and they can demand the same high-quality service from others. We believe that this solution can dramatically improve the efficiency of **e-commerce** across the service chain."

On-going Business Data for Web Business Managers

BEST AVAILABLE COPY

Firehunter/e-Commerce also provides Web business managers with ongoing measurements of business performance. Managers can use the system to establish norms for types of activities at specific times of a day -- for example, typical income or how many items are sold per minute between noon and 1:00 p.m. on Tuesday -- and then compare current performance against these baselines and evaluate trends.

"We need continuous and comprehensive information about our customers' experience at hpshopping.com," said Mike Bridge, chief technology officer at hpshopping.com, Hewlett-Packard Company's business-to-consumer **e-commerce** subsidiary. "Slowdowns or outages can cost tens or even hundreds of thousands of dollars a minute. **Firehunter/e-Commerce** can quickly alert us to problems that other monitors miss, and provides the ongoing business data necessary to sustain our number one ranking in retail **e-commerce** revenue."

Automated, Non-intrusive Sampling

Firehunter/e-Commerce monitors performance through automated sampling. The solution records all of the steps that customers take when interacting with an **e-commerce** application and uses these "synthetic transactions" to test performance. Whenever a step slows down beyond a specified threshold, **Firehunter** issues an alarm and identifies the problem. Test frequency can be adjusted to keep information current without generating unnecessary traffic."

Firehunter/e-Commerce will also notify other applications that correct problems before they escalate, such as Hewlett-Packard's WebQoS, which employs admission-control and load-redirection technologies to prevent Web sites from being overwhelmed at peak hours.

Firehunter/e-Commerce will debut at the 2000 BroadVision International User Conference, May 21 to 24 and ASPCON Spring 2000, May 24 in Orlando, Fla.

U.S. Pricing and Availability

Agilent **Firehunter/e-Commerce** is available now. Pricing starts at $20,000. For more information, visit the Web at www.**firehunter**.com.

About Agilent Technologies
Agilent Technologies, Inc. is a diversified technology company, resulting from Hewlett-Packard Company's plan to strategically realign itself into two fully independent companies. With 42,000 employees serving customers in more than 120 countries, Agilent Technologies, as a subsidiary of HP, is a global leader in designing and manufacturing test, measurement and monitoring instruments, systems and solutions, and semiconductor and optical components. The company serves markets that include communications, electronics, life sciences and healthcare. The businesses comprising Agilent had net revenues of more than $8.3 billion in fiscal year 1999.

Information about Agilent Technologies can be found on the Web at www.agilent.com.

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ニュース

2000年5月25日

製品名 : Agilent **Firehunter / e-Commerce**

業界初´ Eコマースのウェブサイトのパフォーマンスを継続的にリアルタイムで監視できるソフトウェアを発表

Eコマースのウェブサイトの SLA保証が可能に

アジレント・テクノロジー株式会社（社長：成松 洋´ 本社：東京都八王子 市高倉町9番1号）は´ 業界で初めて´ インターネット・サービスプロバイダ （ISP）向けに´ 電子商取引（Eコマース）を支える各要素のパフォーマンスを´ 継続的にリアルタイムで監視できる´ Eコマースサイトの統合管理ソフトウェア「Agilent **Firehunter / e-Commerce** （アジレント・ファイアハンタ／Eコマース）」を発表´ 本日より販売を開始します°

なお´ 出荷開始は´ 2000年7月を予定しています°

「Agilent **Firehunter / e-Commerce**」は´ Eコマースサイトでのユーザの操作（カタログの閲覧や注文など）と´ ホストISP以外の企業などが管理している機能の動作（クレジットカードの認証および決済など）の両方を´ 継続的にテストすることが可能です°

これらのテスト結果をもとに´ ビジネスマネージャ向けに´ Eコマースサイトのパフォーマンスと´ 売上げとの相関関係を示したデータを提供することができます°

また´ 顧客と取り決めたSLA(*1)適合性をリアルタイムで監視し続け´ Eコマースサイト内の潜在的な問題点を発見した場合は´ 適切な人やシステムに警告を出し´ 問題を修正するために他のアプリケーションに情報を送ることができます°

これらの機能により、実際にユーザが感じているサービスレベルをリアルタイムで測定しながら、問題を発見した場合には、警告を出すなどの適切な処置を施すことができるため、顧客と真の意味でのエンド・トゥ・エンドのSLA契約を締結し、それを保証していくことができるようになります。

市場状況

近年、インターネットは、電子商取引（Eコマース）のインフラとして利用されるようになりつつあります。Eコマースを行なうウェブサイトでは、パフォーマンスが低く、ユーザの使い勝手が悪いと、ユーザが利用しなくなるため、売上げに大きな影響が出る恐れがあります。そのため、実際にユーザが感じるサービスレベルを測定したいというニーズがありました。

しかしながら、これまで市場にあった製品では、エンドユーザのPCにソフトウェアの一部をインストールしなければならない製品や、個々のアプリケーションのパフォーマンスを測定する製品が中心でした。

エンドユーザのPCにソフトウェアをインストール製品では、現実問題として、エンドユーザのPCにソフトウェアをインストールしていくことが難しいため、実質的にはパフォーマンスを測定することができませんでした。また、個々のアプリケーションのパフォーマンスを測定する製品では、Eコマースサイト全体のパフォーマンスを、ユーザがどのように感じているかを測定することはできませんでした。

そのため、ユーザがEコマースサイトで感じるサービスレベルを、簡単に測定できる製品が求められていました。

主な特長

*複数ページのブラウジングをともなうEコマースサイトのレスポンス測定が可能です。
*Eコマースサイトを構成する各要素を統合的にテスト可能：
データベースサーバ、アプリケーションサーバ、ネットワークの負荷など、Eコマースサイトを構成するさまざまな要素に対してのテストを統合的に行なうことができます。
*ビジネスマネージャ向けのレポート機能を搭載：
技術に詳しいオペレータだけでなく、ビジネスマネージャへのレポート機能が搭載されています。これにより、サービスレベルとビジネス結果の相関関係を一つの図表で見ることができます。
例えば、「木曜日の午後0時から午後1時までの間に、1分あたり、平均いくらの売上げがあり、いくつの商品が売れたか」といったデータを調べることができ、このデータとEコマースサイトのパフォーマンスとを比較し

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て′ その傾向を調べることができます°

販売方針

* 目標市場：
　　Eコマースサイトを提供するISP
* 販売価格：
　　320万円から（発表日時点での参考価格です°）
* 出荷開始後1年間での販売目標：
　　30システム
* 出荷開始時期：
　　2000年7月

お客様からのお問い合わせ先：
　　計測お客様窓口　　電話：０１２０−４２
　　１−３４５

---

* 1 SLA（Service Level Agreement）：
　　ユーザに対するサービスレベルの合意°

アジレント・テクノロジーついて

　アジレント・テクノロジーは′設計および製造で使われるテスト／計測／監視用の機器′システム′ソリューション′および半導体／光部品の分野において世界のリーダです°アジレント・テクノロジーズ・インクは′42000人の従業員を擁し′120カ国以上でビジネスを展開している多角的なテクノロジー企業です°アジレント・テクノロジーは′通信′エレクトロニクス′ライフサイエンス′ヘルスケアの各市場でビジネスを展開しています°アジレント・テクノロジーの1999会計年度の売上高は83億ドルでした°

　アジレント・テクノロジーの情報は′以下のウェブサイトで見ることができます°

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ニュース

May of 2000 25th

Product name: Agilent Firehunter / e-Commerce

The performance of industry beginning and web sight of E commerce

The software which can be watched continuously in real time announcement

SLA guarantee of web sight of E commerce possibly

Agitation connected To * technology corporation (president: Forming pine ocean, head office: In the Tokyo Hachiozi city high warehouse town 9th 1), industry for the first time, in for Internet * service provider (ISP), performance of each element which supports electronic commerce (E commerce), can be watched continuously in real time, integrated management software wear " Agilent Firehunter of the E commerce sight / the e-Commerce (agitation connected To * ファイアハンタ / E commerce)" is announced, sale is started from this day.
Furthermore, start of shipment has planned July of 2000.

It is possible as for " the Agilent Firehunter / the e-Commerce ", the virtuous work (perusal and order et cetera of catalog) of the user with the E commerce sight and enterprise et cetera other than the host ISP to have managed and to test the both of operation (certification and liquidation et cetera of credit card) of ろ function, continuously.
On the basis of these test results, in for the business manager, it is possible to offer the data which shows the correlation with E commerce rhinoceros To's performance and the sale.
In addition, the customer the SLA which is arranged (the *1) it continues to watch compatibility in real time, when the latent problematical point inside the E コマースサイト is discovered, to the appropriate person and the system police/policing announcement it provides, the fact that information is sent to other application in order to correct problem comes being.

Due to these functions, while measuring the service level which really the user feels with the リアルタイム, when you discover problem, because it is possible, to administer the appropriate disposal such that it puts out warning it concludes the SLA contract of the ended * to * end in the customer and true sense, it reaches the point where it can keep guaranteeing that.

Market circumstance

Recently, Internet is reaching the point where it is utilized electronic commerce (E commerce) as below. When with the web sight which does the E commerce, the puff オーマンス is low, the using selfishness of the user is bad, because the user stops utilizing, there is a possibility big influence appearing in the sale. Because of that, there were needs that we would like to measure the service level which really the user feels.

But, so far in the product which is in the market, portion of the ソフトウェア must be installed to the PC of the end user, the product and the individual applique - the product which measures Shaun's performance was the center.
In the installation product, it designated the software as actual problem in the PC of the end user and because it is difficult, to keep installing the software to the PC of the て and the end user, substantially it was not possible to measure performance. In addition, with the product which measures the performance of individual application was not produced, measures densely the user how feels ユマースサ I To the performance of the whole E. Because of that, the product which simply measuring fixed is produced the service level which the user feels with the E commerce sight, was required.

Main merit

*** Even also browsing of the plural pages response measurement of the う E commerce sight is possible.**
*** Integrated each element which forms the E commerce sight test possibility:**

The test vis-a-vis, the various elements which such as data base server form the E commerce sight, application server and load of network line it can do う thing integrated.

*** Report function for business manager loading:**

In technology not only the detailed operator, report function to the business manager is loaded. Because of this, service level and it is possible to look at the correlation Seki person in charge of the business result with one diagram.
For example, " Thursday in the afternoon, per 1 minute, average it is from o'clock of 0 in the afternoon between to 1 o'clock and there is the sale of the saddle, several commodities sell inspect the data which was said high, " it is possible compares with this data and the performance of the E commerce sight, can inspect the tendency densely.

Sale policy

*** Target market:**
The ISP which offer the E commerce sight
& the selling price which:
(It is reference price in the announcement day and time point from 320 ten thousand Yen.)
*** After the starting the shipment sale goal in 1 year:**
30 systems
*** shipment start time:**
July of 2000

Ahead inquiring from customer:
Measurement customer window telephone: 0120 - 421 - 345

---

* 1 SLA (Service Level Agreement):
Agreement of the service level for the user.

Agitation connected To * technology being attached,
Agitation connected To * technology is the reader of the world the equipment, the system, the solution of the test / measurement / watch apparent business which is used with the design and production, and in the field of semiconductor / optical part. It is the multilateral technology 企 industry where the agitation connected To * technologies * ink possesses 42000 secondary industry members, develops business in 120 countries or more. Agitation connected To * technology, communication, electronics, the life rhinoceros エンス, has developed business in each market of the health care. The gross sales 1999 accounting period of agitation connected To * tech slag Gee was 83 hundred million dollars.
As for information of agitation connected To * technology, it can see with the web sight below, increases.

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Http: //www.agilent.co.jp/ (agitation connected To * technology corporation)

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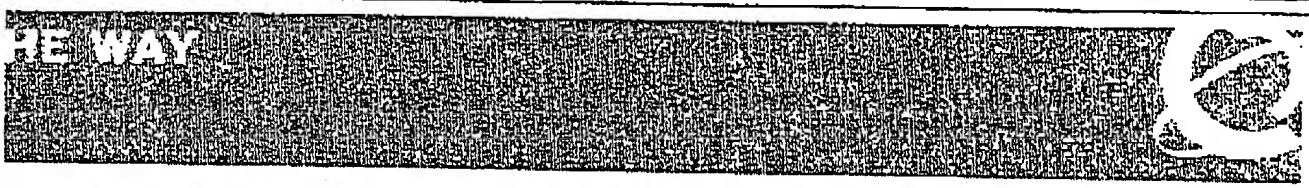

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Keep those Webplates spinning

Performance monitoring platforms that can keep your site in balance.

By GARRETT MICHAEL HAYES
Network World, 11/06/00

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Anyone managing a Web or **e-commerce** site can sympathize with the juggler whose stage act consists of balancing a variety of spinning plates on poles. Like that classic performer, the Web site administrator must keep a variety of systems in balance while the whole world is watching. Just like those spinning plates, the failure of one part of the Web puzzle can easily bring the entire edifice crashing down around the ears of a hapless administrator.

As Web sites become more complex, and the degree to which companies depend upon their Web infrastructure for minute-to-minute operations increases, a crop of tools has grown up to help administrators keep everything in proper motion. Together with TesCom USA, we decided to look at products that aim to solve the problem of Web site performance monitoring.

How we did it
Interactive Scorecard and NetResults
Making your Web site healthy
Web site monitoring interactive buyer's guide database
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We invited eight vendors to participate in the review, and four

accepted. We looked at Freshwater Software's SiteScope, Platform Computing's Site Assure, Holistix Software's self-named Holistix and Agilent's **Firehunter**/Pro and **Firehunter eCommerce** combination. All four packages were operated in a Windows NT/Windows 2000 environment (see "How We Did It"). Also invited were Resonate with its Resonate Commander, ProActiveNet with eBizSuite, NetScout with nGenius Performance Monitor and Netuitive with Netuitive 5.0. Even though several of the vendors offer monitoring services as well as monitoring products, we tested only the software products. The Buyer's Guide interactive chart includes a range of products and services concerning Web site performance and site management.

Platform's Site Assure

What we found was a field of products that is beginning to mature nicely, with several good offerings that will let you occasionally sleep through the night, though none of the tools are yet ready to replace you as administrator. Out of the four products we tested, we awarded our Blue Ribbon Award to Platform's Site Assure. It wins by a whisker, mainly because of its security model. However, the field was so close that any administrator standing in a slightly different position might find the final decision in this horse race still in doubt. Though all the products cover similar areas, they are by no means just variations on a theme. In contrast to Site Assure's security model, Holistix offers impressive richness in its automation, Freshwater's SiteScope delivers some serious help for a modest price, and Agilent's **Firehunter**, despite its premium price tag, still promises some unique business-oriented perspective.

Making assurances

Platform's Site Assure uses agents to monitor targeted systems. Its tests verify the availability of services, examine performance counters and respond to problems by taking direct corrective action or by notifying an administrator via pager or e-mail. Key to this sort of testing, especially for Web servers, is the ability to test the availability of Web pages, both individually and as a complete set of pages making up a Web transaction.

Site Assure's method for developing a Web transaction test involves stepping sequentially through the relevant pages in an abstract presentation, showing the administrator the actual HTML source content being returned at each stage. Unlike the methods of the other products, this lets you make selections based on good or bad returned content that might be hidden from an actual user's view.

Site Assure's Live Event viewer presentation gives you a good real-time display of how systems monitored by Site Assure are doing at any particular moment. Combined with the historical logs, the system can present a fairly comprehensive view of target-system activity.

Site Assure can respond to problems by alerting an administrator with e-mail messages, SNMP traps, console messages, event log

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entries, or by performing conditional testing, agent-centered actions (such as restarting a service on a remote system), or enabling or disabling entire sets of policies.

In our test, we emphasized e-mail as the alert method and agent actions as the corrective measure. Both were easy to configure, and the only problem we encountered in actually performing an automated restart of a service was that we were shutting down the wrong service for test purposes.

Additionally, Site Assure had the most robust multiuser security features of any of the products, allowing the administrator to define each administrative user's access to monitors and policies with explicit control over read, modify and execute access on the individual monitor or policy level. Thus it would be easy to set up a Web administrator with great control over the entire Web server but read-only access to a related SQL server, and give a database administrator mirror-image controls over the SQL server with only visibility to the Web server.

Site Assure reports are largely graphical, and can be added or customized by the administrator, pulling data from the various configured agents. These reports are also live rather than historical, updating information as the agents continue to monitor the system. More traditional reporting, in the historical sense, is accomplished with log files maintained by the system.

Installation was simple, with options to install the full manager, a remote console or local "agent" service. Agents are required on the targeted systems, and communication between the manager and agent may be encrypted, using a set of four dedicated TCP ports (defaulted to starting at 4040). This allows for easy configuration to cross firewalls if needed. The encryption may be set to none, 64-bit or 128-bit as desired. The manager and all agents must be set to the same encryption level, but may be accidentally configured to different levels, preventing communication. We also had a minor gripe in that screens that ask for passwords or encryption keys aren't explicitly clear about whether a new value is being defined or a previous value is being used.

The process of deploying the various testing agents seemed a bit cumbersome the first time through, but the process quickly became familiar. This was especially true because each agent can gather a large number of related metrics, each of which may have several optional settings such as values for "polling" and "smoothing" intervals. It only required deploying two or three agents, though, before we had a good feel and were able to deploy five or six more with relative ease.

Our testing did identify one explicit bug: The agent templates delivered did not properly handle negative values for some threshold tests. Such values must be put inside quotation marks for the tests to operate properly.

With all its strengths, we were fairly disappointed in Site Assure's documentation. The online manual is essentially just an electronic

version of a printed book, with a table of contents on one side and the text on the other. Unlike a printed book, you can't hold it in your hands and flip through it for information, nor does it make up for that shortcoming by taking advantage of any good visual presentation. The material is accurate, but pedestrian.

The Holistix approach

Holistix Software's Holistix product uses "monitors" (the specific tests and metrics) grouped together into "Web applications" (the system pieces that make up a particular functional Web site or **e-commerce** system). "Action plans" encapsulate the various notification and corrective actions that the system can take, while "policies" define the relationship between the Web applications, their monitors and the various available action plans. The installation process asks for the default Web site to monitor and sets up a default Web application with some basic monitors based on that information, greatly easing the familiarization process.

Adding monitors to a Web application definition was easy, and we especially liked that we could explicitly test the monitors and action plans before committing them to use. This was useful in setting up e-mail notification, which by default attempts to relay messages through a server at Holistix. In our case, this relay would have presented a severe problem because our target e-mail server was not on a public network.

Like the other products, Holistix allows a monitor to be defined that tracks a series of Web access steps that make up a Web transaction. Holistix's URL Sequence monitor can be built step-by-step, with the Holistix manager accessing each page, showing the controls and links for each page, and letting the administrator choose the next step from those items marked "good" or "bad." While this method worked well, we preferred Site Assure's method of showing the entire returned HTML content, which made it easier to pick out the page content that would define a good return, indicating that the right page or answer had come back rather than just any reply.

Holistix's policy templates let us create sets of commonly used metrics and associated actions. You can also apply system-level templates, which in the case of an NT target let us identify the resources on the target via any combination of port checking, SNMP, PerfMon counters or conversation with an installed Remote Holistix Agent. We were surprised there wasn't a monitor that told us whether a particular NT service was running, something even Freshwater's completely agentless SiteScope could do. Holistix officials say such a monitor is planned in a future release.

The general status monitor gave us a good overall look at application health, while the predefined reports are broken into several categories for easy access, including: performance/availability, troubleshooting, operation and configuration. The health summary reports were interesting because they rolled up most of the other details into a high-level graphical view of the application state and underlying metrics. However, there is no capability for customizing or adding to the reports directly in the product.

Of the four products, we found Holistix's abilities to respond to problem conditions the most impressive. Holistix incorporates the concept of escalation into its response model, allowing the administrator to easily define a set of action plans, the results of which may vary depending on how long or how often an error condition exists. For example, an action plan could be developed that pages an operator when a problem first occurs, pages a manager if the problem persists for a few minutes, restarts a service if no correction occurs in 10 minutes and escalates to some sort of crisis response after that.

We installed Holistix from a provided CD, though it is also available as a download from the Holistix Web site. Holistix maintains the configuration and metrics information in a database, using the included Microsoft Data Engine (MSDE) or a SQL Server 7.0 back end. Holistix recommends using the MSDE database only for small installations. In our case, we used that rather than the SQL option to avoid placing product-specific information into our SQL server or deploying another instance of SQL.

The online help system is well laid out, and contains some good examples and entry-level explanations to get the new user started in understanding and setting up a Holistix monitor system. We referred to the help files several times during the installation and configuration process, and were usually able to find what we needed in only a few moments.

Scoping it out

Available as a download from Freshwater's Web site, our immediate observation about SiteScope was "basic is as basic does." Uncomplicated from beginning to end, the simplicity of SiteScope impressed our testers. But that simplicity masks a fairly powerful and useful tool.

SiteScope uses monitors to lay out its services, with a monitor being a single type of test performed against a single target system. For example, a URL monitor tests the availability of a particular Web page on a given system, and a database monitor connects to and retrieves information from a specific database. SiteScope provides 32 types of monitors, including CPU, Domain Name System (DNS), disk space, FTP, mail, memory, ping, performance counters, and several URL and Web server monitors. Interestingly, SiteScope provides these monitors using only the service running on the one management system. Unlike the other three products that rely on agents running on target systems, SiteScope has no such requirement.

Among the monitors available with SiteScope is an HTTP Transaction Monitor, which lets you test a series of HTTP steps that might occur in a complex Web transaction such as searching a database or completing a purchase. With our basic **e-commerce** Web site, constructing such a test wasn't particularly difficult, but for more complex sites the manual nature of building a transaction might be limiting.

Another feature we liked was that unlike the other three products, SiteScope never seemed to place screen elements outside the scope of an 800 by 600 resolution display - a major plus to an administrator not blessed with a large format display or the visual acuity of an eagle.

After configuring a series of monitors to look at the availability of NT, network, HTTP and SQL Server resources in our test network, we then configured an e-mail alert to let us know when a resource became unavailable. The setup process for e-mail notification includes a test feature, which includes visibility into the entire SMTP conversation - excellent for debugging the setup. A minor gripe was that once successfully configured, the conversation display went away too quickly for us to read. Alerts by pager and SNMP traps are also available, though we did not test them.

Because it uses no client-side agents, SiteScope's ability to take corrective actions relies on running applications and batch files local to the server where SiteScope is installed. To ease use of this feature, Freshwater provides several sample batch files that can be used almost out of the box to perform such tasks as restarting failed services. One problem we had was that the scripts may rely on SiteScope passing the name of the alert that called the script, yet the default alert names don't necessarily carry the correct information to identify a service. Also, we were surprised that no sample script was provided for starting a remote service. However, devising such a script (which also overcame the alert-name problem) only took about 5 minutes.

A predefined set of basic reports gave a clear picture of target system behaviors and the alert conditions. The report formats strike a fairly good balance between online and printed readability, and can be detailed enough to satisfy most needs. One report of a day's behavior (or more properly, exaggerated misbehavior) on our test system ran to 24 pages without becoming overly cluttered.

Installation required an e-mail address for the SiteScope administrator, the target directory, and stating whether we were updating from another version. After that, we installed the SiteScope NT service, the documentation and a Java run-time engine. A few more simple configuration options (entering the name for our SiteScope server and selecting a couple of security settings) and the product was ready to go.

Like three of the four products, SiteScope comes with only online documentation in a Web-based format. However, the SiteScope documents include two versions, one intended for online use and the other a single-file format provided explicitly for printing. While sending the 328 pages to a printer in a single pass might make you temporarily unpopular with co-workers, it provides a nice option if you still like a physical document. Whether online or physical, the documentation is well laid out and straightforward, covering basic concepts, terminology and explicit steps in a logical sequence that minimized the need to dance madly from place to place to accomplish a task.

PAGE 19/27 * RCVD AT 9/27/2005 5:58:50 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-6/25 * DNIS:2738300 * CSID:+ * DURATION (mm-ss):08-24

Firehunter

Firehunter, from Agilent, is actually a combination of products. **Firehunter** is available in three versions: **Firehunter**/L, **Firehunter** and **Firehunter**/Pro, each of which is designed for a different scale of environment. Added to the midlevel **Firehunter** product in our test harness was the **Firehunter eCommerce** package, which adds some specific tests for commerce-based Web sites. Of the four products we tested, **Firehunter eCommerce** seemed to be the most promising out of the box, but instead soon proved to be the most frustrating.

The **Firehunter** package is qualitatively different from the other three products - its focus appears to be on business management more than systems management. Three aspects of the product highlight this difference. First, **Firehunter** has tools for explicitly defining the goals of and measuring compliance with service-level agreements (SLA). Second, the baseline measurements and planning reports included are meant to help ISPs and application service providers (clearly Agilent's intended market) determine what SLA goals will be achievable. Finally, tie-ins are provided to allow **Firehunter** to view extracted data from commerce sites and report on the current "business health" of the monitored site.

The **eCommerce** option adds several additional metrics, including the ability to define Web transactions and Web-related SLA metrics. The **Firehunter** method of building a Web transaction test was the most direct of any of the products we tested, using a two-pane display to show each Web page of the target system next to the options for recording the steps as one goes through them. **Firehunter** does this by placing a proxy service between the target system and the administrator's Web browser, with the Web browser configured to point to the **Firehunter** proxy. Unfortunately, while the browser must be set to use the proxy to record the session, it must not be set to do so when initiating the recording session - requiring the administrator to switch back and forth to build each test.

Firehunter has another interesting distinction from the competing products in our test - it is the only product that presents separate administrative and user consoles. The administrative console is where the services and associated tests are defined, while the user graphical user interface (GUI) provides a view into the test results, associated events, various reports and a help desk view showing administrative notations.

As soon as we installed it, **Firehunter** merrily scanned our network segment and built a default list of services that it was prepared to monitor. Whatever arguments against the idea of automatically scanning for services in a network, it is an instructive process, and we discovered several services and systems visible from our test harness that we had not realized were there. In a larger, real-world environment, such a function could be enlightening to managers who are supposed to know what's going on in their Web sites.

Understanding how to define the tests to be performed was helped

by the sheer number of tests predefined during the initial scanning phase of setup. Additional tests could be added by dragging-and-dropping icons from one side of the administrative console onto the list of monitored systems on the other, and then filling in the relevant blanks. Some of the necessary information was not clearly defined, but most questions could be muddled through with some educated guessing.

The user GUI had its own set of problems, none of which were crippling but were annoying at the least. The first portion of this application, the help desk, is a view-only window into annotations about events made elsewhere. Similar to what users might see visiting the network status page of an ISP's Web site, these messages might include notes from service technicians that a particular server was down for maintenance or that a router was now fixed. These annotations could be made through the detailed status displays on other tabs. But annotations made to event records rather than to server or service records did not seem to appear. Thus a technician's note that he was working on the DNS failure might not appear on the help desk screen, if the note was appended to the record of the failure rather to the DNS service. This would seem to limit the use of that information.

The GUI's graphs view allows the user to see detailed graphic information about each metric being gathered. The view is cumulative, in that selecting a metric adds its graph to the page of graphs - without (unfortunately) an option not to do so.

The graphs display can thus rapidly become cluttered with extraneous information. Asking the system to refresh its data clears the displayed graphs - a rather unexpected result. There is a separate command to refresh the graphs, but it was not obvious.

Firehunter seems to be focused on an environment where administrative and help desk personnel are actively monitoring the systems at most times, or at least immediately available. Paging, e-mail and SNMP traps are the methods discussed most in the documentation, along with "running reports," which is actually just a batch process for extracting the product's reports to a Web site or similar target. This batch process option could be used to take other corrective actions (in much the same fashion as with Freshwater's SiteScope), but we couldn't find examples or sample scripts.

Even defining actions such as an e-mail alert was extremely cumbersome. No selection lists or drop downs are provided, requiring the administrator to handwrite notes or do a multiple window "stare and compare" to transpose long, convoluted definition strings from one portion of the system to another without the benefit of cut-and-paste. Correctly setting up an e-mail notification required three attempts, and after each, the configuration needed to be saved and the **Firehunter** service restarted. We found no test capability, short of waiting for the defined event to occur and seeing if a message appeared in the target mailbox.

On our first attempt, installation of the base product would not complete, but appeared to hang when trying to initialize the

services. One error message, which we finally noticed hidden in a list of installation status messages during our third installation attempt, pointed us to a possible problem with reverse name resolution. However, reverse resolution appeared to be working normally, so we called Agilent's technical support. That process quickly revealed that the problem was a bad record in an outdated "hosts" file on our server, which the Agilent software was using to do reverse lookup. Eliminating the bad record allowed installation to complete.

Firehunter was the only product in our test group that came in a box, with hard-copy documentation. Included were "concepts" and "installation" books that provided good overviews of the intended uses for the product, but which often left detailed instructions to the online HTML format documentation. In general, this approach would be good, but we found that when we clicked on various help icons in the administrative tool, many of the documents were not stored where the system expected them to be, and some did not exist anywhere that we could find.

Overall, we found Agilent's **Firehunter** too temperamental to be effective. The overall number of irritations, from the lack of lists and drop-downs when configuring tests, to the stubborn insistence on showing a graph for everything we ever clicked on, made using the tool more work than the results merited.

Sorting it out

Of the four products we tested, three seemed to be in fairly close contention, while Agilent's **Firehunter** fell short in our estimation. Among the other three, Platform's Site Assure was our pick by a slim margin, largely because of the richness of its security model, an often-neglected feature in administrative tools. However, the final selection for a particular site is likely to come down to issues of personal preference or site-specific needs on the part of the administrator who will use the tool. Concerns about multiuser security definitely gives the nod to Site Assure.

For small to midsize sites, however, the ease of deployment and the flexibility with which tests can be grouped, moved and redefined may make Freshwater's SiteScope the logical choice. A need for multilayer incident responses, on the other hand, may tip the scales toward Holistix Software's Holistix. But any of the three seem able to help you keep your Web plates spinning along.

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Hayes is a writer and consultant at Verbal Imaging in Atlanta. He can be reached at ghayes@verbalimaging.com. This review was conducted at TesCom laboratory (www.etesting.com) in Atlanta, with infrastructure consultation from TesCom's Chief Technologist, Steve Antonoff and Network Administrator Blaine Pullin.

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Agilent Technologies' Firehunter/e-Commerce software enables ISPs to check e-commerce network performance, which, in turn, enables ISPs to write realistic SLAs.

by Wayne Kawamoto
[May 18, 2000]

Email this article to a colleague

Agilent Technologies recently introduced its **Firehunter/e-Commerce**, a solution that lets ISPs continuously monitor the performance of an entire **e-commerce** infrastructure.

According to Agilent, **Firehunter/e-Commerce** provides comprehensive measurements that let ISPs establish verifiable business-oriented service level assurance (SLA) agreements with **e-commerce** vendors. The software is supposed to track real-time SLA compliance, identify potential problems within an infrastructure, alert the appropriate people and systems, and trigger

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applications that can correct problems.

Agilent says that its **Firehunter/e-Commerce** uses synthetic transactions that repeatedly test both the user's experience with the commerce application and component operations that ISPs do not control; for example, catalog look-up, and credit verification.

Also, **Firehunter/e-Commerce** lets Web-business managers obtain independent corroboration of real-time performance in business terms, for example, approved sales rates in dollars per minute, payment service errors, or item sold rate, with performance baselines and alerting thresholds.

The company claims that **Firehunter/e-Commerce** couples real-time transaction monitoring with an ability to "drill-down" and isolate problems. Furthermore, the system combines the end-user-experience and infrastructure-performance views with near-real-time business performance measurements to offer a picture of **e-commerce** service health. This can let ISPs negotiate realistic SLAs with co-service providers and provide end-to-end service guarantees to business customers. Managers can also use the system to establish norms for types of activities at specific times of a day — for example, typical income or how many items are sold per minute between noon and 1:00 p.m. on Tuesday — and then compare current performance against baselines and evaluate trends.

"Consumer patience with delay on **e-commerce** sites can be measured in seconds," says Tom White, vice president and general manager of Agilent's Communications Solutions Group. "**Firehunter/e-Commerce** allows ISPs to locate and fix infrastructure problems quickly. ISPs can now offer SLAs that differentiate them from competitors, and they can demand the same high-quality service from others."

Pricing and Availability
Agilent **Firehunter/e-Commerce** is available now, and pricing starts at $20,000.

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